UUU	UUU	EEEEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU	UUU	EEEEEEEEEEEE	11111111111111111	PPTPPPPPPPPPP	SSSSSSSSSSSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	SSS	AAA AAA
UUU	UUU	EEE	111	PPP PPP	SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$	YYY YYY
UUU	UUU	ĒĒĒ	ttt	PPP PPP	SSS	YYY YYY
UUU	UUU	ĒĒĒ	ŤŤŤ	PPP PPP	SSS	777 777
ŬŬŬ	ŬŬŬ	EEEEEEEEEE	ŤŤ	РРРРРРРРРРР	SSSSSSSS	YYY
UUU	ŬŬŬ	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
	UUUUUUUU	EEEEEEEEEEEEEE	III	PPP	SSSSSSSSSSS	YYY
	UUUUUUU	EEEEEEEEEEEEE	III	PPP	22222222222	AAA
UUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	111	PPP	SSSSSSSSSS	YYY

\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		\$	\$	\$	55555555555555555555555555555555555555	44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44
		\$					

SATSSS54 Table of contents	SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00
(1) 54 (1) 82 (1) 107 (1) 170 (1) 240 (1) 333 (1) 452	DECLARATIONS CONDITION TABLES TM SETUP, TM CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM CONDS VERIFY VFY_CLEANUP

.TITLE SATSSS54 SATS SYSTEM SERVICE TESTS SCLREF (SUCC S.C.)

SAT VO4

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: FACILITY: S

SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

: \*

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: \*

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSSS4 TO TEST SUCCESSFUL OPERATION OF THE SCLREF SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE.
DYNAMICALLY ACQUIRES OTHER PRIVILEGES. AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: SEP, 1977

MODIFIED BY:

. : VERSION

01

SAT

SATSSS54

SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 Page 4 DECLARATIONS 5-SEP-1984 04:32:23 EUETPSY.SRCJSATSSS54.MAR;1 (1)

00000000 78 .PSECT RWDATA,RD,WRT,NOEXE,LONG 00000008 0000 79 PRIVMASK: .BLKQ 1 : ADDR OF PRIVILEGE MASK (IN PHD) 0000000C 0008 80 CLUSTER: .BLKL 1 : STATE ARGUMENT ON READEF SERVICE

PSE

SAT

SAE ROD RWD SAT

Pha Ini Com Pas Sym Pas Sym Pse Cro Ass

The 285 The 506 35

\$2 -\$2 -\$2 TOT 620 The

MAC

```
SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 CONDITION TABLES 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR;1
                                                                                                                                                               Page
                                           .SBTTL CONDITION TABLES
                     ***** CONDITION TABLES FOR CLREF SYSTEM SERVICE ****
                                                        1,NOTARG,<CLUSTER NUMBER>,-
<CLUSTER 0 (PROCESS-LOCAL)>,-
<CLUSTER 1 (PROCESS-LOCAL)>,-
<CLUSTER 2 (COMMON)>,-
<CLUSTER 3 (COMMON)>,-
                                          COND
                                                               BYTE 0
BYTE 1
BYTE 2
BYTE 3
                                                                                    CLUSTER NUMBER 0
CLUSTER NUMBER 1
CLUSTER NUMBER 2
CLUSTER NUMBER 3
                                          COND
                                                        2.NULL
                                          COND
                                                        3, NULL
                                          COND
                                                        4, NULL
 008D
008E
0000000
                                          COND
                                                        5. NULL
                                          .PSECT SATSSS54, RD, WRT, EXE
```

\*\*

(1)

SAT

D444400E0 MOD\_MSG\_PRINT : PRINT TEST MODULE BEGIN MSG TEST\_MOD\_SUCC.TMD\_ADDR : ASSUME END MSG WILL SHOW SUCCESS #SUCCESS,#0,#3,MOD\_MSG\_CODE : ADJUST STATUS CODE FOR SUCCESS 00000000 EF INSV 158 159 160 161 162 TO,5%, KRNL ; KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD GET PRIVMSK (R9), PRIVMSK; GET PRIV MASK ADDRESS FROM,5%; BACK TO USER MODE MODE 59 00000000°9F 69 DO MOVL MOVAL MODE PRIV ADD ALL ; GET ALL PRIVILEGES

SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 TM\_SETUP, TM\_CLEANUP 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR;1 Page

SSETPRN S TEST MOD\_NAME\_D
SS\_CHECK NORMAL
SS\_CHECK NORMAL
RSB
166 TM\_CLEANUP::
BSBW MOD\_MSG\_PRINT
RSB

FF4A"

: SET PROCESS NAME : CHECK STATUS CODE RETURNED FROM SETPRN : RETURN TO MAIN ROUTINE

SAT VO4

: PRINT TEST MODULE END MSG : RETURN TO MAIN ROUTINE

CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.

CALLING SEQUENCE:

BSBW CONDX BSBW CONDX\_CLEANUP WHERE X = 1,2,3,4,5

INPUT PARAMETERS:

CONFLICT = 0

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

**DUTPUT PARAMETERS:** 

CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.

IMPLICIT OUTPUTS:

R2.3.4.5.6 PRESERVED

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

COND1\_CLEANUP::

RSB COND2::

RSB OOBA OOBA

COND2\_CLEANUP:: RSB

: RETURN TO MAIN ROUTINE

V04

; RETURN TO MAIN ROUTINE

: RETURN TO MAIN ROUTINE

: RETURN TO MAIN ROUTINE

05 00B 00B 05 00B9 00B9 05 05

00B7 00B7 00B7 00B7 00B7 00B7 00B 00B 00B 00B 00B7 00B7

00B7

00B7 00B7

00B7

00B7

00B7

00B7

00B7 00B7

00B7

00B7

00B7

00B7

00B7

00B?

00B7

00B7 00B7

00B7 00B7

00B7

00B7

00B7 00B7

00B7 00B

00B 00B

00B 00B 185

186 187

188

189

190

191

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194

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197

198

199

200

202 203 204

205

SATS SYSTEM SERVICE TESTS SCLRE CONDITION SUBROUTINES - SETUP AN	SUCC CLEANU	16-SEP-1984 00:57:57 5-SEP-1984 04:32:23	VAX/VMS Macro V04-00 LUETPSY.SRCJSATSSS54.MAR;1	Page	9 (1)
--	----------------	---	--	------	-------

	00BB	227	COND3::					
05	00BB	228	COND3_CLEANUP::	:	RETURN	TO	MAIN	ROUTINE
05	OOBC	230	COND4::	:	RETURN	TO	MAIN	ROUTINE
05	OOBD	335	COND4_CLEANUP::	:	RETURN	TO	MAIN	ROUTINE
05	00BE 00BF	234	RSB COND5::	•	RETURN	TO	MAIN	ROUTINE
05	OOBF	236	CONDS_CLEANUP::	•	RETURN	TO	MAIN	ROUTINE
05	ŏŏcŏ	238	RSB	:	RETURN	TO	MAIN	ROUTINE

```
SAT
V04
```

SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAD SAVE CONDITION 1 CONTEXT FOR FAO

```
SATSSS54
V04-000
                                            SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro VO4-00 FORM_CONDS 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR:1
                                                                                                                                                                                  10
                                                                              .SBTTL FORM_CONDS
                                                                     FUNCTIONAL DESCRIPTION:
                                                   FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                                                       THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                     CALLING SEQUENCE:
                                                                             BSBW FORM_CONDS
                                                                     INPUT PARAMETERS:
                                                                              NONE
                                                                     IMPLICIT INPUTS:
                                                                             R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX T - TITLE TEXT FOR CONDX TABLE
CONDX TAB - ELEMENT TEXT FOR CONDX TABLE
CONDX C - CONTEXT OF THE CONDX TABLE
CONDX E - DATA ELEMENTS OF THE CONDX TABLE
                                                             260
261
263
263
263
265
267
268
270
271
                                                                     OUTPUT PARAMETERS:
                                                                             NONE
                                                                     IMPLICIT OUTPUTS:
                                                                             NONE
                                                                     COMPLETION CODES:
                                                                             NONE
                                                                     SIDE EFFECTS:
                                                                             NONE
                                                             280
281
282
283
                                                   00C
                                                   00C
                                                             285
286
288
289
289
291
293
293
295
296
                                                                  FORM_CONDS::
                                                   00C1
00E0
                                                                             SFAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                                                                                                                            FORMAT CONDITIONS HEADER MSG
                                                   00E0
00E3
00E6
                                    FF1D*
                                                                                        OUTPUT_MSG
#COND1_C,#NULL
                                                                              BSBW
                                                                                                                                  AND PRINT IT
                                                                                                                            IS CONDITION 1 NULL ?
                                      00
                                                                              CMPB
                                                                                         10$
                                                                              BNEQU
                                                                                                                            NO -- CONTINUE
                                                                                         FORM_CONDSX
                                    OOBF
                                                                              BRW
                                                                                                                            YES -- SUBROUTINE IS FINISHED
                                                                   105:
                                                    OOEB
                                                                             0000000C'EF
       00000000°EF
                                                    OOEB
                                                                                                                            SAVE ADDRESS OF CONDITION 1 TITLE FOR FAC
```

00000001C'EF42 00000000'EF 00

00F6

0000000'EF

```
SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 FORM CONDS 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR;1
SATSSS54
V04-000
                                                                                                                                                                                                                                                                                                                                                    (1)
                                                                                                                                                                       WRITE MSG2
MCONDZ_C, MNULL
20$
                                                                                                                    297
298
299
                                                                                                                                                                                                                                            FORMAT AND WRITE CONDITION 1 MSG
                                                                    FEF4"
                                                                                       30
91
                                                                                                                                                   BSBW
                                                             14
                                                                                                                                                                                                                                            IS CONDITION 2 NULL ?
                                                                                                                                                    CMPB
                                                                                       12
                                                                                                  010F
                                                                                                                                                   BNEQU
                                                                     0096
                                                                                                                    30012303
3003
3005
3005
3007
3007
3007
3007
                                                                                                                                                   BRW
                                                                                                                                                                        FORM_CONDSX
                                                                                                                                                                                                                                            YES -- SUBROUTINE IS FINISHED
                                                                                                                              205:
                                                                                                                                                                      COND2 T.MSG A

COND2 TAB[R3].MSG B

SAVE ADDR OF COND 2 CURR TEXT ELT FO

MCOND2 C.MSG CTXT

SAVE CONDITION 2 CONTEXT FOR FAO

COND2 C.COND2 E[R3],MSG DATA1; GIVE COND 2 DATA VALUE TO FAO

WRITE MSG2

#COND3 C.MNULL

SOS SUBBOUTINE IS FINISHED
       00000000'EF
                                                                                      DE
DO
90
                                           0000008A'EF
0000008A'EF43
                                                                                                                                                                                                                                            SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
                                                                                                                                                    MOVAL
                                                                                                                                                   MOVL
                                     00000000°EF
                                                                                                                                                   MOVB
                                                                                                                                                   MOV VAL
                                                                                      30
91
12
31
                                                                                                                                                    CMPB
                                                                          03
                                                                                                                                                   BNEQU
                                                                     006D
                                                                                                                                                   BRW
                                                                                                                                                                         FORM_CONDSX
                                                                                                                                                                     COND3_T,MSG_A
COND3_TABER4],MSG_B
#COND3_C,MSG_CTXT

COND3_C,COND3_EER4],MSG_DATA1; GIVE COND 3 CURR TEXT ELT FOR FAO
WRITE_MSG2
#COND4_C,MNULL
FORM COND5X

COND4_T,MSG_A
COND4_T,MSG_A
COND4_T,MSG_B
#COND4_C,MSG_CTXT

COND4_T,MSG_A
COND4_C,MSG_CTXT

COND4_C,MSG_CTXT

COND4_C,MSG_CTXT

COND4_C,MSG_CTXT

COND4_C,MSG_CTXT

COND4_C,COND4_EER5],MSG_DATA1; GIVE COND 4 CURR TEXT ELT FOR FAO
WRITE_MSG2
#COND5_C,MNULL
FORM COND5X

COND5_T,MSG_A
COND5_T,MSG_A
COND5_T,MSG_A
COND5_T,MSG_B
#COND5_C,MSG_CTXT

COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 4 MSG

FORMAT AND WRITE CONDITION 4 MSG

COND5_T,MSG_A
COND5_T,MSG_A
COND5_T,MSG_B
#COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_C,COND5_EER6],MSG_DATA1; GIVE COND 5 CURR TEXT ELT FOR FAO
WRITE_MSG2

**PETURN TO CALLER
                                                                                                                    310
311
                                                                                                                              305:
                                                                                                  0:3D
       00000000'EF
                                         0000008B'EF
0000008B'EF44
                                                                                                                                                    MOVAL
                                                                                                                                                    MOVL
                                     00000000'EF
                                                                                                                                                    MOVB
                                                                                                 015B
015B
015E
                                                                                                                                                   MOV VAL
                                                                                       30
91
13
DE
DO
                                                                                                                                                    CMPB
                                                                                                  0161
                                                                                                                                                   BEQLU
                                                 0000008C'EF
             00000000'EF
                                                                                                 0163
                                                                                                                                                    MOVAL
                                    0000008C'EF45
00000000'EF 14
        00000000'EF
                                                                                                 016E
017A
                                                                                                                                                   MOVL
                                                                                       90
                                                                                                                    320
321
322
3323
3324
5326
7329
7329
7329
7329
                                                                                                                                                    MOVB
                                                                                                 0181
0181
                                                                                                                                                   MOV VAL
                                                                    FE7C'
                                                                                       91
13
DE
DO
                                                                                                                                                    CMPB
                                                                                                 0187
                                                                                                                                                   BEQLU
             00000000°EF
                                                 0000008D'EF
                                                                                                 0189
                                                                                                                                                   MOVAL
                                           0000008D'EF46
                                                                                                 0194
       00000000'EF
                                                                                                                                                   MOVL
                                                                                       90
                                    00000000'EF
                                                                                                 01A0
                                                                                                                                                    MOVB
                                                                                                                                                   MOV VAL
                                                                                                  01A7
                                                                                       30
                                                                    FE56
                                                                                                 01A7
                                                                                                                             FORM_CONDSX:
                                                                                                 01AA
                                                                                       05
                                                                                                 01AA
                                                                                                                                                   RSB
                                                                                                                                                                                                                                       : RETURN TO CALLER
```

.SBTTL VERIFY 01AB 01AB 01AB FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2.3.4.5.6 FOR COND TABLES 1.2.3.4.5. RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$CLREF). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX\_E.

**OUTPUT PARAMETERS:** 

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO DUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR\_EXIT OR SS\_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

01AB 01AB 01AB 01AB 01AB 01AB 01AB 01AB 01AB 350 351 352 353 OTAB OTAB 01AB 01AB 01AB 01AB 01AB 01AB 01AB 01AB 01AB 360 361 01AB 362 363 01AB 380 381 382 383 01AB 01AB 01AB 384 385 386 388 389 01AB 01AB 01AB 01AB 01AB

01AB

01AB 01AB 01AB

ATSSS54 04-000					SATS	01AB 390		TS SCLI	REF (SUCC 16-SEP-1984 5-SEP-1984	00:57:57	VAX/VMS Macro V04-00 [UETPSY.SRC]SATSSS54.	MAR;1 Page 1	13
				FFOB	95 13 30	01AB 390 01AB 391 01AB 393 01AB 393 01AB 395 01AB 395 01B1 396 01B3 397 01B6 398 01B6 399		TSTB BEQL BSBW	CFLAG 58 FORM_CONDS	: NO	ULD CONDITIONS BE PRINT CONTINUE FMT & PRINT ALL CON		.c.
0		00000 58 00000	58	05 59	9A 78 D4 91 19	0186 399 018E 400 01C2 401 01C4 402 01CC 403 01CE 404 01E1 405 020F 406 020F 407 0212 408 0216 409	150.	MOVZBL ASHL CLRL CMPB BLSS \$ASCEF( SS_CHE(	COND1_E[R2],R8 #5,R8,R8 R9 COND1_E[R2],#2 15\$ S EFN=R8, NAME=TEST_ K NORMAL	COM	CLUSTER NO. INTO REGIS T BY 32 TO GET 1ST EVEN AB OFFSET INTO CLUSTER MON CLUSTER ? BYPASS THE ASSOCIATE CLUSTER & CHECK STATUS	FOR 1ST FLAG SERVICE	
		5B	SA SA	58 1F	D0 C1	020F 407 0212 408 0216 409	15\$: 20\$:	MOVL ADDL3	R8 R10 #31,R10,R11		AB CURRENT EFN IN REG 1 AB HIGH EFN FOR THIS CL	0 USTER	
	0000	00000	*8F	SE 20	D1 13	021F 411 0226 412 0228 413		BEQLU	S EFN=R10 R0,#SS\$_WASSET 25\$ CK WASCLR	: VAS	CURRENT EVENT FLAG SET STATUS CODE ? GO LOOP FOR ANOTHER BETTER BE WASCLR, TH	SETEF	
	FFBA	SA SA	01 59	58 58	3D 81	0256 414 0256 415 025C 416 025C 417	25\$: 30\$:	ACBW ADDB3	R11,#1,R10,20\$ R8,R9,R10	-	REMENT TO NEXT EFN & LO PUTE EVENT FLAG NUMBER	OP	
00000000		0000		50 60 0 * 8F 50	D1 13 D0 D0	0260 418 0260 419 0260 420 0260 421 0269 422 0270 423 0272 424 027D 425 0284 426 0202 427		SCLREF CMPL BEQLU MOVL MOVL ERR_EXI	S EFN=R10 R0,#SS\$_WASSET 40\$ #SS\$_WASSET,EXPV R0,RECV IT LONG, <incorrect sta<="" td=""><td>CLE CODE YES LOAI</td><td>JECT OF THIS TEST CASE  AR EVENT FLAG E RECEIVED = CODE EXPEC CONTINUE D UP EXPECTED AND RECEIVED VALUES, THEN RETURNED FROM CLREF&gt;</td><td>TED ?</td><td></td></incorrect>	CLE CODE YES LOAI	JECT OF THIS TEST CASE  AR EVENT FLAG E RECEIVED = CODE EXPEC CONTINUE D UP EXPECTED AND RECEIVED VALUES, THEN RETURNED FROM CLREF>	TED ?	
00000000 00000000 00000000	EF 'EF	5B 000	59 00000 00 00 00000 5B	00	D4 81 D0 F0 DC 13	0269 422 0270 423 0272 424 0270 425 0284 426 0202 427 0202 428 0202 427 030F 430 0311 431 0313 432 0317 433 0317 433 0317 433 0317 433 0317 433 0318 436 038E 439 038E 440 038E 440 038E 440 038E 440 0389 444		SS CHECCLRL CLRL ADDB3 MOVL INSV MOVL CMPV BEQL	S EFN=R8, STATE=CLUS R WASCLR R11 R7 #1,R9,R11 ONES,EXPV #0,#0,R11,EXPV CLUSTER,RECV #0,R11,CLUSTER,#0 50\$ IT LONG, <event flag(s)<="" td=""><td>CLE/ COM/ EST/ ARE</td><td>CURRENT CLUSTER AND CHECK ITS STATUS AR REGISTERS TO ALLOW. BYTE OPERATIONS ON THE PUTE NUMBER OF O-BITS TO AB EXPECTED VALUE FOR. POSSIBLE ERR EXIT AB RECEIVED VALUE AS WE ALL EXPECTED EVENT FLAG ER SHOULD BE CLEAR&gt; — GENERATE ERROR &amp; EXIT</td><td>O COMPARE  LL GS CLEAR ?</td><td></td></event>	CLE/ COM/ EST/ ARE	CURRENT CLUSTER AND CHECK ITS STATUS AR REGISTERS TO ALLOW. BYTE OPERATIONS ON THE PUTE NUMBER OF O-BITS TO AB EXPECTED VALUE FOR. POSSIBLE ERR EXIT AB RECEIVED VALUE AS WE ALL EXPECTED EVENT FLAG ER SHOULD BE CLEAR> — GENERATE ERROR & EXIT	O COMPARE  LL GS CLEAR ?	
0000	0008		59 1F 57 0000	1F 64 59 58	91 13 83 EC	038E 440 038E 441 0391 462 0393 443 0397 444	508:	CMPB BEQL SUBB3 CMPV	#31,R9 60\$ R9,#31,R7 R11,R7,CLUSTER,ONES		CURRENT EFN HIGHEST IN THEN CLUSTER IS ALL COMPUTE NO. OF 1-BIT ALL EV FLAGS NOT YET C		ra
				51	13	03A4 445		BEQL	60\$	; YES	GO LOOK AT NEXT EVE	NT FLAG	

SATSSS54

VO4-000

SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro VO4-00 Page 14 V04-000

O3A6 446 ERR\_EXIT LONG, < EVENT FLAG(S) IN CLUSTER SHOULD NOT BE CLEAR SO NO -- GENERATE ERROR & EXIT O3F7 448 608:

FESF 59 01 1F 9D 03F7 449 ACBB #31,#1,R9,308 : INCR TO NEXT EFN IN THIS CLUSTER & LOOP 05 03FD 450 RSB ; RETURN TO CALLER

```
SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 VFY_CLEANUP 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR:1
                                                          .SBTTL VFY_CLEANUP
                                          FUNCTIONAL DESCRIPTION:
                                          VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.
                                           CALLING SEQUENCE:
                                                          BSBW VFY_CLEANUP
                                           INPUT PARAMETERS:
                                                          NONE
                                           IMPLICIT INPUTS:
                                                         R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX_E.
                                           OUTPUT PARAMETERS:
                                                          NONE
                                           IMPLICIT OUTPUTS:
                                                         NONE
                                           COMPLETION CODES:
                                                          EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                           SIDE EFFECTS:
                                                          SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
```

VFY\_CLEANUP::
RSB
.END

: RETURN TO CALLER

SATSSS54 Symbol table	SATS SYSTEM SERVICE TESTS SCLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 Page 1 5-SEP-1984 04:32:23 [UETPSY.SRC]SATSSS54.MAR;1
SSSSCHARS  SSCHARS  SSCHARS  SSCHARS  SSCHARS  SSSCHARS  SSSCHARS  SSSCHARS  SSSCHARS  SSSCHARS  SSSCHARS  SSSTRINGS  SSSTRINGS  SSTRINGS  SSSTRINGS  SSTRINGS  STRINGS  SSTRINGS  STRINGS  STRIN	COUNTY   C

SATSSS54 Psect synopsis SATS SYSTEM SERVICE TESTS \$CLREF (SUCC 16-SEP-1984 00:57:57 VAX/VMS Macro V04-00 Page 17 5-SEP-1984 04:32:23 [UETPSY.SRCJSATSSS54.MAR;1 (1)

## ! Psect synopsis !

PSECT name	Allocation		ttributes			
SABS .	00000000 ( 0.)	00 ( 0.) NO	OPIC USR CON	ABS LCL NOSHR	NOEXE NORD	NOWRT NOVEC BYTE
RODATA	00000051 ( 81.) 0000008E ( 142.)	02 ( 2.) NO 03 ( 3.) NO	OPIC USR CON OPIC USR CON	REL LCL NOSHR	NOEXE RD	NOWRT NOVEC LONG
SATSSS54	000003FF ( 1023.)	04 ( 4.) NI	OPIC USR CON	REL LCL NOSHR	EXE RD	WRT NOVEC BYTE

## Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.34
Command processing	110	00:00:00.69	00:00:01.66
Pass 1	231	00:00:05.73	00:00:11.03
Symbol table sort	0	00:00:00.43	00:00:00.65
Pace 7	106	00:00:01.55	00:00:02-43
Symbol table output	106	00:00:00.08	00:00:00:09
Symbol table output Psect synopsis output	1	00:00:00.03	00:00:00.05
Cross-reference output	Ó	00:00:00.00	00:00:00.00
Assembler run totals	493	00:00:08.59	00:00:16.25

The working set limit was 1200 pages.
28528 bytes (56 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 295 non-local and 28 local symbols.
506 source lines were read in Pass 1, producing 22 object records in Pass 2.
35 pages of virtual memory were used to define 26 macros.

## ! Macro library statistics

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	8
\$255\$DUA28:[SYSLIB]STARLET.MLB:2	14
TOTALS (all libraries)	23

620 GETS were required to define 23 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS54/OBJ=OBJ\$:SATSSS54 MSRC\$:SATSSS54/UPDATE=(ENH\$:SATSSS54)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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